

## Education

### University College London (UCL)

Doctorate of Philosophy (Ph.D.), Computer Science  
Computer Vision, Computer Graphics, Deep Learning and Machine Learning  
Supervised by Tobias Ritschel and Niloy J. Mitra

UK, London  
2018-present

### Ulm University

Master of Science (with distinction), Media Informatics - 1.1 (1.0 best)  
Deep Learning, Computer Graphics, Data Visualisation

Germany, Ulm  
2015-2017

### Ulm University

Bachelor of Science, Media Informatics - 1.3 (1.0 best)  
Human-Computer-Interaction, User Interface Design

Germany, Ulm  
2012-2015

## Publications

Reizenstein, J., Shapovalov, R., **Henzler, P.**, Sbodorne, L., Labatut, P., Novotny, D., Common Objects in 3D: Large-Scale Learning Evaluation of Real-life 3D Category Reconstruction. ICCV 2021. **(Oral)**

**Henzler, P.**, Reizenstein, J., Labatut, P., Shapovalov, R., Ritschel, T., Vedaldi, A., Novotny, D., Unsupervised Learning of 3D Object Categories from Videos in the Wild. CVPR 2021.

**Henzler, P.**, Deschaintre, V., Mitra, N.J., Ritschel, T., Generative Modelling of BRDF Textures from Flash Images. SIGGRAPH Asia 2021.

**Henzler, P.**, Mitra, N.J., Ritschel, T., Learning a Neural 3D Texture Space From 2D Exemplars. CVPR 2020.

**Henzler, P.**, Mitra, N.J., Ritschel, T., Escaping Plato's Cave: 3D Shape From Adversarial Rendering. ICCV 2019.

Engel, N., Hoermann, S., **Henzler, P.**, Dietmayer, K., Deep Object Tracking on Dynamic Occupancy Grid Maps Using RNNs. ITSC 2018.

Hoermann, S., **Henzler, P.**, Bach, M., Dietmayer, K., Object Detection on Dynamic Occupancy Grid Maps Using Deep Learning and Automatic Label Generation. IV 2018.

**Henzler, P.**, Rasche, V., Ropinski, T., Ritschel, T., Single-image Tomography: 3D Volumes from 2D X-Rays. EG 2018. (Master Thesis)

Dobbelstein, D., **Henzler, P.**, Rukzio, E., Unconstrained Pedestrian Navigation based on Vibro-tactile Feedback around the Wristband of a Smartwatch. CHI 2016. (Bachelor Thesis)

## Professional Experience

### Adobe Research, Research Intern

Material Detail from Global Appearance Using Stochastic Textures  
(Supervisors: Milos Hasan, Kalyan Sunkavalli, Valentin Deschaintre, Zexiang Zu)

US, San Jose (remote)  
Jun - Sept 2021

### Facebook AI Research (FAIR), Research Intern

Unsupervised 3D Learning from Videos (Supervisors: David Novotny, Andrea Vedaldi)

UK, London  
Jun - Okt 2020

### University College London (UCL), Postgraduate Teaching Assistant (PGTA)

Courses: Machine Learning, Computer Graphics and Machine Vision

UK, London  
Oct 2018 - present

**Ulm University (in collaboration with Robert Bosch GmbH)**, Research Assistant  
Object detection / tracking using dynamic occupancy grid maps for autonomous driving

Germany, Ulm  
Nov 2017 - Apr 2018

### Charles Oakes & Co. S.à.r.l, Summer Intern

Created and developed an interactive web application for data collection

Spain, Alicante/Luxembourg  
Aug - Oct 2016

### Airbus Se, Summer Intern

Development of an intuitive user interface for administration of data

Germany, Immenstaad  
Jul - Sep 2012, Mar - Apr 2013

## Awards & Scholarships

### Rabin Ezra Scholarship

2021

### Department of Computer Science UCL & Google Fellowship Scholarship

2018

### Winner of the Audi-App Challenge

2016

Midosa App - Conception and development of an innovative application for the car cockpit

## Skills

Programming languages: Python, C++, Java, Javascript

Libraries: PyTorch, TensorFlow, OpenCV, OpenGL, WebGL, LaTeX, NodeJS

Software: Adobe Illustrator / Photoshop / After Effects / Premiere Pro, Blender, MeshLab, PyCharm, Microsoft Visual Studio Code

Version Control: Git